

FIG. 1

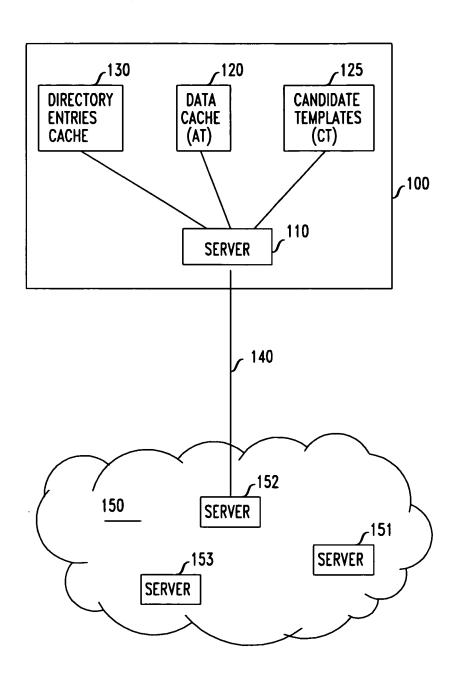




FIG. 2

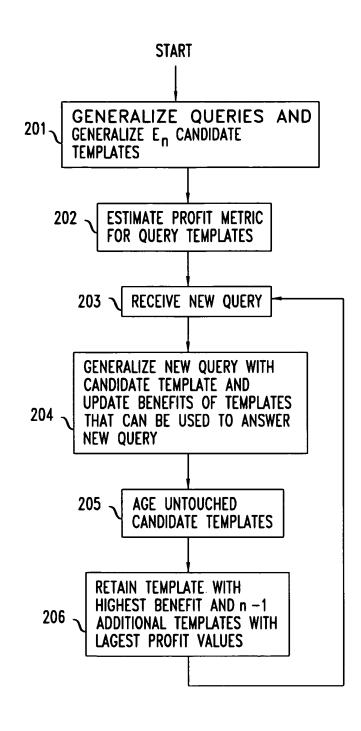




FIG. 3

```
ChooseCandidate (q,CT)
     /* CT= { ct; , ...,ct<sub>n</sub>} */
      NT=0
      FOR EACH of in CT;
            nt =CompPairTemplate (ct ,q)
           IF (nt_i = ct_i)
                /* q: SPECIALIZATION OF ct; */
                 b(ct_i)=b(ct_i)+c(q)
            ELSE IF (nt_i \in NT)
                 /* nt;: TEMPLATE EXISTS */
                 b(nt_i)=max(b(nt_i), b(ct_i)+c(q))
            ELSE IF (s(nt_i) < S)
                 b(nt_i)=b(ct_i)+c(q)
                 ADD nti TO NT
      /* AGE EACH UNTOUCHED ct; */
      NT=NT U CT
      IF (q \notin NT \text{ and } s(q) < S)
            b(q)=c(q)
            NT=NT U q
              TEMPLATES WITH HIGHEST
      CT= {BENEFIT IN NT }
      CHOOSE (n-1) ADDITIONAL
            TEMPLATES WITH LARGEST VALUES
            OF PROFIT PROFIT p(t) IN NT
      RETURN CT
ł
```



FIG. 4

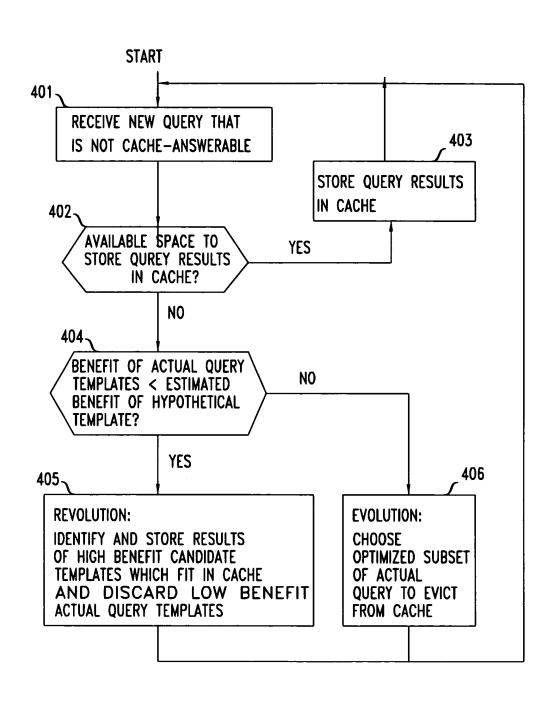


FIG. 5

```
Revolution (AT,CT) {
   /* COMPUTE CT' AT U CT FOR ADMISSION */
   SORT THE ti's USING
   CT'=0
   REPEAT
       ADD THE HIGHEST RANKED
           REMAINING t; THAT CAN
           FIT IN THE AVAILABLE
           CACHE SPACE TO CT'
       ADJUST FREE SPACE TO REFLECT s(t;)
       ADJUST BENEFITS, COSTS,
           SIZES OF UNSELECTED
           TEMPLATES IN CT U AT
       RE-SORT
   UNTIL (NO MORE TEMPLATES CAN BE ADDED)
   CT"=TEMPLATE ti in CT U AT
         WITH HIGHEST VALUE OF b(t) - c(t)
   IF (b(CT") >= b(CT'))
         RETRUN CT"
   ELSE RETURN CT'
}
```